

ELECTRIC TRANSMISSION AND DISTRIBUTION REVIEW

ATTACHMENT “B”

**SUPPLEMENTAL REPORT TO
ANNUAL REPORT FOR 2021**

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PART 411.120(b)(3) SUPPLEMENT TO ANNUAL REPORT

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Supplemental Report Section 1. Beginning with the 2003 Supplemental report filed on June 1, 2004 – The number and causes of interruptions for the annual reporting period. (Section 411.120(b)(3)(D)). Interruption will be defined in 411.20

Table B-1: The following table summarizes the number of customer interruptions experienced in 2021 by cause category.

CATEGORY	NUMBER OF EVENTS	PERCENT OF TOTAL EVENTS
Animal Related	26	10.70
Vegetation Related	53	21.81
Employee\Contractor Personnel Errors	0	0
Underground Equipment Related	1	0.41
Transmission Equipment	0	0
Substation Equipment	0	0
Weather	37	15.23
Intentional\Maintenance	30	12.35
Other Alternative Supplier\Utility	0	0
Customer Equipment	35	14.40
Public	7	2.88
Overhead Equipment	27	11.52
Unknown	25	10.29
Other	0	0
Overload	1	0.41

Supplemental Report Section 2. Beginning with the 2003 Supplemental Report filed on June 1, 2004 – For those customers who experienced interruptions (controllable and uncontrollable) in excess of the service reliability targets listed below, (1) a list of every customer identified by a unique number assigned by the jurisdictional entity and not the customers' name or account number, the number of interruptions and interruption duration experienced in each of the three preceding years, and the number of consecutive years in which the customer has experienced interruptions in excess of the service reliability targets (Section 411.120(b)(3)(L))

Mt. Carmel calculates that fifteen (15) customers on its system experienced interruptions (controllable and uncontrollable) which are in excess of the service reliability targets listed below. The following table provides the data requested in Supplemental Report Section 2 above.

Table B-2: Customers Experiencing Outages in Excess of Reliability Targets.

Customer Id. Number	Interruption \ Duration By Year (In Minutes)						Consecutive Years In Excess Of Targets
	2016	2017	2018	2019	2020	2021	
F-010N-110W-006-015							
0551109000		6 Int. / 26377 Min.	10 Int. / 71656 Min.	10 Int. / 77504 Min	11 Int. / 61164 Min.	4 Int. \ 9976 Min	5
0551108000			5 int \ 45475 Min	4 Int. / 22978 Min	11 Int. / 61164 Min	3 Int. \ 9966 Min	4
F-010N-110W-006-001							
0551286000	5 Int. / 3181 Min	6 Int. / 26377 Min.	10 Int. / 71656 Min	11 Int / 83684 Min	12 Int. / 61361 Min.	5 Int. \ 10124 Min	6
0551296000	5 Int. / 3181 Min	6 Int. / 26377 Min.	10 Int. / 71656 Min	11 Int / 83684 Min	12 Int. / 61361 Min.	5 Int. \ 10124 Min	6
0551301000	5 Int. / 3181 Min	6 Int. / 26377 Min.	10 Int. / 71656 Min	11 Int / 83684 Min	12 Int. / 61361 Min.	5 Int. \ 10124 Min	6
0551346000	5 Int. / 3181 Min	6 Int. / 26377 Min.	10 Int. / 71656 Min	11 Int / 83684 Min	12 Int. / 61361 Min.	5 Int. \ 10124 Min	6
0551366000	5 Int. / 3181 Min	6 Int. / 26377 Min.	10 Int / 71656 Min	11 Int / 83684 Min	12 Int. / 61361 Min.	5 Int. \ 10124 Min	6
0551321000	5 Int. / 3181 Min	6 Int. / 26377 Min	10 Int. / 71656 Min	9 Int. / 83514 Min	7 Int. / 3558 Min.	5 Int. \ 10131 Min	6
0551261000	5 Int. / 3181 Min	6 Int. / 26377 Min	10 Int. / 71656 Min	6 Int. / 54526 Min	13 Int. / 61493 Min.	7 Int. \ 10348 Min	6
0551356000				3 Int. \ 12864 Min.	12 Int. / 61361 Min.	5 Int. \ 10124 Min.	3
0551376000		6 Int. / 26377 Min.	10 Int. / 71656 Min.	11 Int. / 83684 Min	12 Int. / 61361 Min.	5 Int. \ 10124 Min	5
0551381000		6 Int. / 26377 Min.	10 Int. / 71656 Min.	11 Int. / 83684 Min	7 Int. / 3558 Min.	5 Int. \ 10124 Min	5
0551341000		6 Int. / 26377 Min.	10 Int. / 71656 Min.	11 Int. / 83684 Min	12 Int. / 61361 Min.	5 Int. \ 10124 Min	5
0551306000		6 Int. / 26377 Min.	10 Int. / 71656 Min.	11 Int. / 83684 Min	12 Int. / 61361 Min.	5 Int. \ 10124 Min	5
0551274000			9 int \ 71504 Min.	11 Int. / 83684 Min.	11 Int. / 58230 Min.	5 Int. \ 10124 Min	4

Mt. Carmel realizes the impact that continued multiple outages have on its customers. A review of the outages impacting those customers listed in Table B-2 above, for the most recent annual reporting period, indicates the following:

Note: In its Annual Reliability Review for the 2019 reporting period Mt. Carmel defined its criteria for the isolation of certain distribution facilities located in low lying areas along and near the Wabash River which are known to be impacted during high water conditions.

“F-010N-110W-006-015” and “F-010N-110W-006-001” 2020 Operating History: Both of these Line Sections were impacted by maintenance and loss of supply events occurring upstream of these line sections. Mt. Carmel calculates that these upstream events accounted for four or approximately 33.33% of the total outage events and approximately 518 minutes or 0.84% of the total minutes for these customers during the 2020 reporting period. Additionally, Between January 13 and May 23, 2020 Mt. Carmel isolated these customers on five (5) separate occasions when Mt. Carmel implemented its Isolation program due to high water events. Mt. Carmel calculates that these events combined account for approximately 33.33% of the total interruptions and approximately 60,557 minutes or 98.69% of the interruption minutes for each customer during the 2020 reporting period.

“F-010N-110W-006-015” and “F-010N-110W-006-001” 2021 Operating History: Between March 3 and March 10, 2021 Mt. Carmel implemented its isolation program on Line Section F-010N-110W-006-015 when river levels were projected to exceed the nineteen (19) Ft. flood stage threshold. Mt. Carmel calculates that this accounts for approximately 20% of the outages impacting the customers identified in Table B-2 above. Mt. Carmel further estimates that this planned interruption having an estimated duration of 9,757 minutes, per customer involved, represents approximately 96.37% of the total interruptions minutes experienced by each identified customer in the 2021 reporting period.

Supplemental Report Section 3. Beginning with the 2003 Annual Report filed on June 1, 2004 – for the customers identified in item #2, the Supplemental Report shall include the specific actions, if any, that the utility plans or has taken to address the customer reliability concerns.

Actions Planned or Taken: Mt. Carmel believes that the extended outage events as a result of flooding conditions in the current reporting period, and similar conditions in previous reporting periods, are major contributing factors in these customers exceeding service reliability targets in consecutive reporting periods. Mt. Carmel believes that due to the location and nature of the outages involved there is no action to be taken at this time.

Service Reliability Targets

(1) For the purposes of the Supplemental Report, service reliability targets are defined below:

- A) Customers whose immediate primary source of service operates at 69,000 volts or above should not have experienced:
 - i) More than three interruptions in each of the last three consecutive years.
 - ii) More than nine hours of total interruption duration in each of the last three consecutive years.
- B) Customers whose immediate primary source of service operates at more than 15,000 volts but less than 69,000 volts should not have experienced:
 - i) More than four interruptions in each of the last three consecutive years.
 - ii) More than 12 hours of total interruption duration in each of the last three consecutive years.
- C) Customers whose immediate primary source of service operates at 15,000 volts or below should not have experienced:
 - i) More than 6 interruptions in each of the last three consecutive years.
 - ii) More than eighteen hours of total interruption duration in each of the last three consecutive years.